



OFFICE OF

**Environmental and
Energy Coordination**

FAIRFAX COUNTY

Fairfax County Community-wide Energy and Climate Action Plan (CECAP) Focus Group Kickoff

January 6, 2020 – South County Government Center
January 8-9, 14, 2020 – Fairfax County Government Center



Agenda

- Welcome & Introduction (Fairfax County)
- Overview of CECAP Process (Fairfax County)
- Regional Landscape & Trends (COG)
- Current Fairfax Practices and What Comes Next? (ICF)
- Role of Focus Group Members / Focus Group Liaison to the Task Force / FOIA (Fairfax County)
- Question & Answer Session (Fairfax County)
- District Break Outs to Choose Liaison
- Adjourn



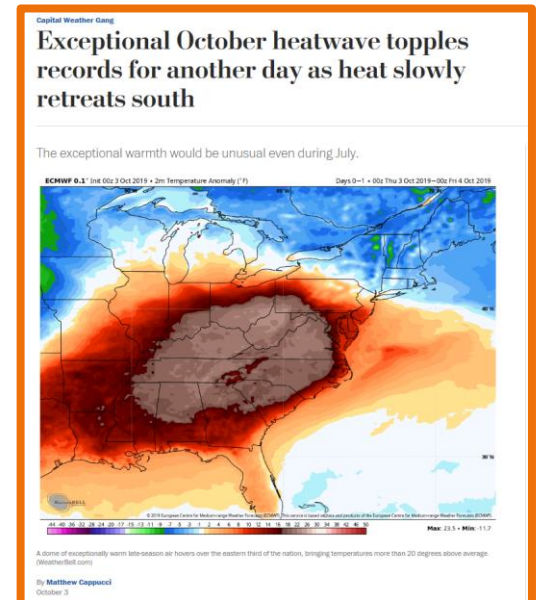
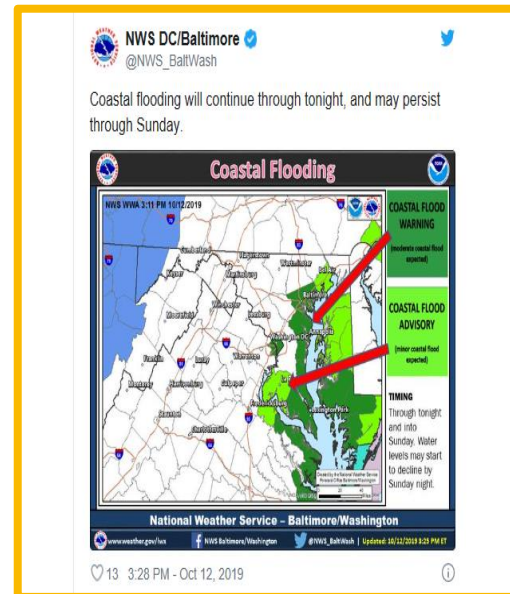
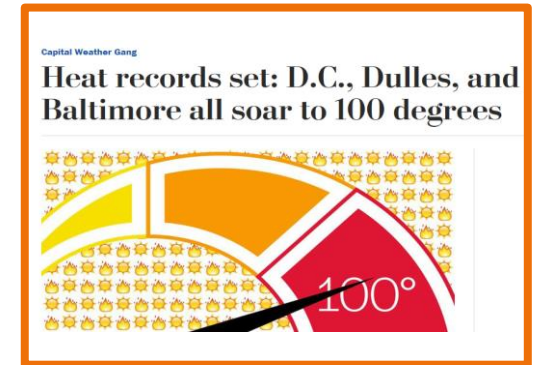
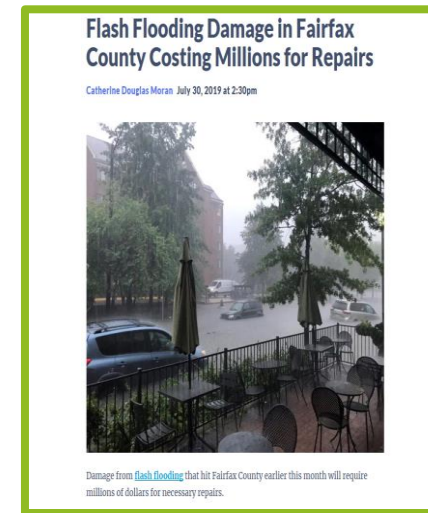
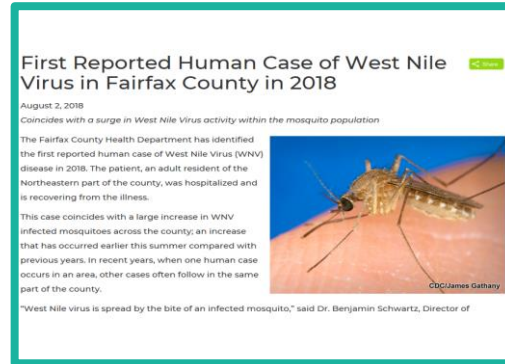
Office of Environmental & Energy Coordination (OEEC)

- Established July 1, 2019
- Develops and implements county's environmental and energy policies, goals and programs
- Engages county departments, authorities, businesses and residents to advance environmental and energy initiatives and address community needs
- Work is guided by Board of Supervisor's environmental and energy priorities and policies outlined in the Environmental Vision and Operational Energy Strategy, as well as broader priorities, such as One Fairfax
- One of the roles OEEC is tasked with includes administering CECAP



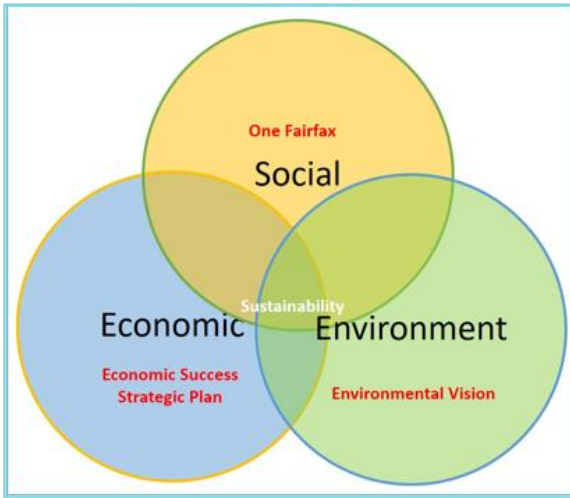
Regional Climate Impacts and Threats

- Coastal/Tidal Flooding
- Extreme Precipitation
- Extreme Heat
- Health





Community-wide Energy and Climate Action Plan (CECAP)

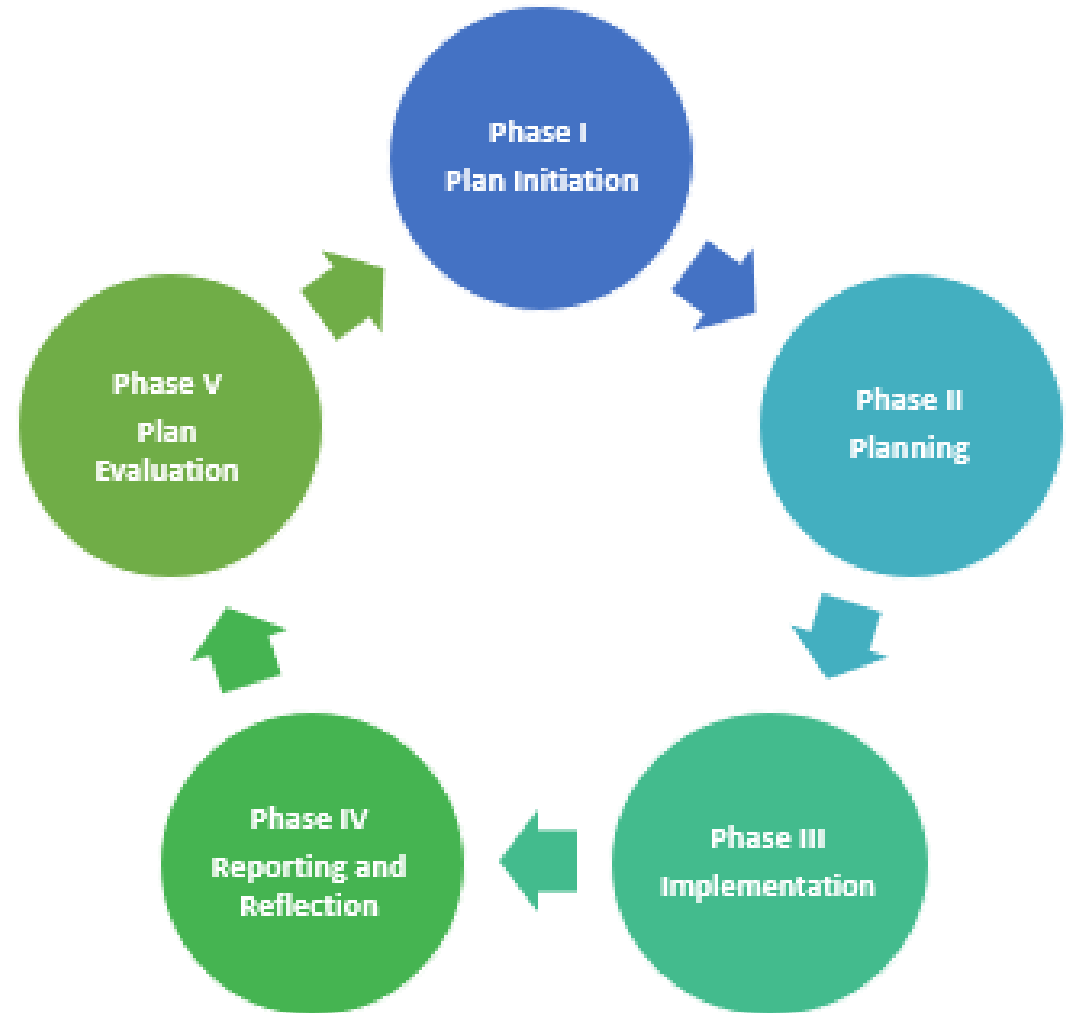


- Community-driven plan outlining climate mitigation actions and strategies
 - County will strive to educate and engage all community members throughout planning and implementation phases
- Components of planning process
 - CECAP technical report
 - GHG inventory update
 - Emissions models
 - Mitigation actions, strategies
 - Community Outreach
 - Online interactive tools
 - Fact sheets
- Planning and implementation of CECAP shall support the county's existing social, economic and environmental goals and policies
 - Strategies shall be intersectional, equitable, multi-faceted, and address all major sectors in Fairfax County



CECAP Process

- Planning phase kicks off in 2020
- Three levels of community outreach
 - Task Force
 - Focus Groups
 - Community
- Review GHG inventory, models
- Set climate mitigation goal(s)
- Develop mitigation actions and strategies
- Review final CECAP technical report
- Develop community outreach strategies
- Review Community Outreach Guide





Energy & Climate Task Force

40-member core team

- Members include representatives from:
 - Boards, Authorities and Commissions
 - Building industry groups
 - Business community
 - Civic associations
 - Educational institutions
 - Faith-based organizations
 - Focus Group members
 - Local government, including Schools and Parks
 - Nonprofits focused on environmental, civil rights and other community issues
 - Public health sector
 - Utility, water and transportation sectors
- Responsibilities include
 - Attend Task Force meetings
 - Review CECAP materials
 - Develop climate mitigation goals
 - Review and prioritize mitigation strategies and actions
 - Incorporate community and Focus Group feedback into recommendations





Focus Groups

8-12 member groups from each Supervisor district

- Supervisor-appointed members include representatives from:
 - Civic and environmental groups
 - The School Board
 - Business associations
 - Faith-based groups
 - Boards, Authorities and Commissions
- Responsibilities:
 - Attend kickoff meeting
 - Work virtually with Focus Group members
 - Identify group leader to serve on Task Force
 - Review CECAP materials
 - Provide recommendations
 - Ensure district-level concerns are addressed in the CECAP



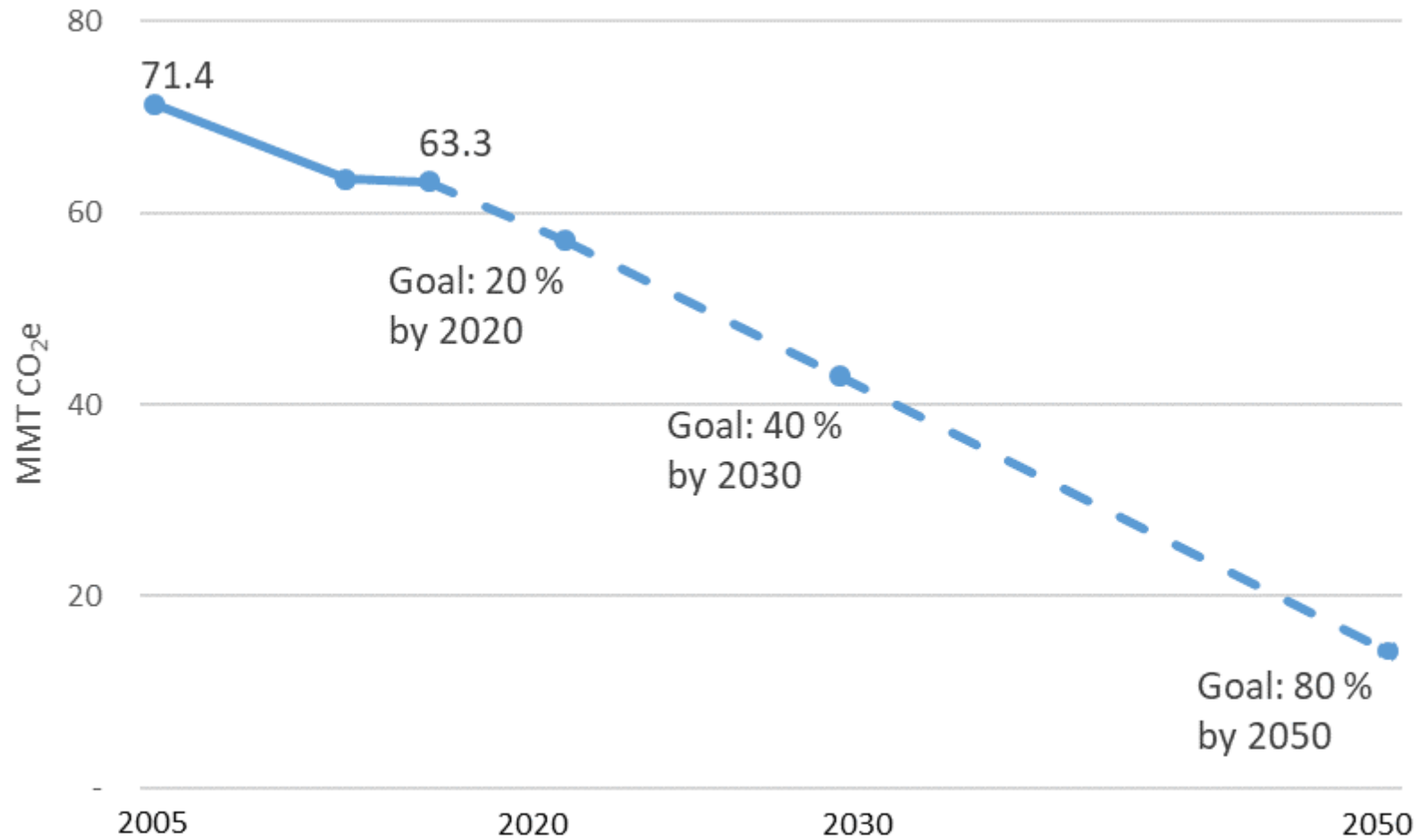
Regional Landscape & Trends

Metropolitan Washington Council of Governments (COG)

Steve Walz



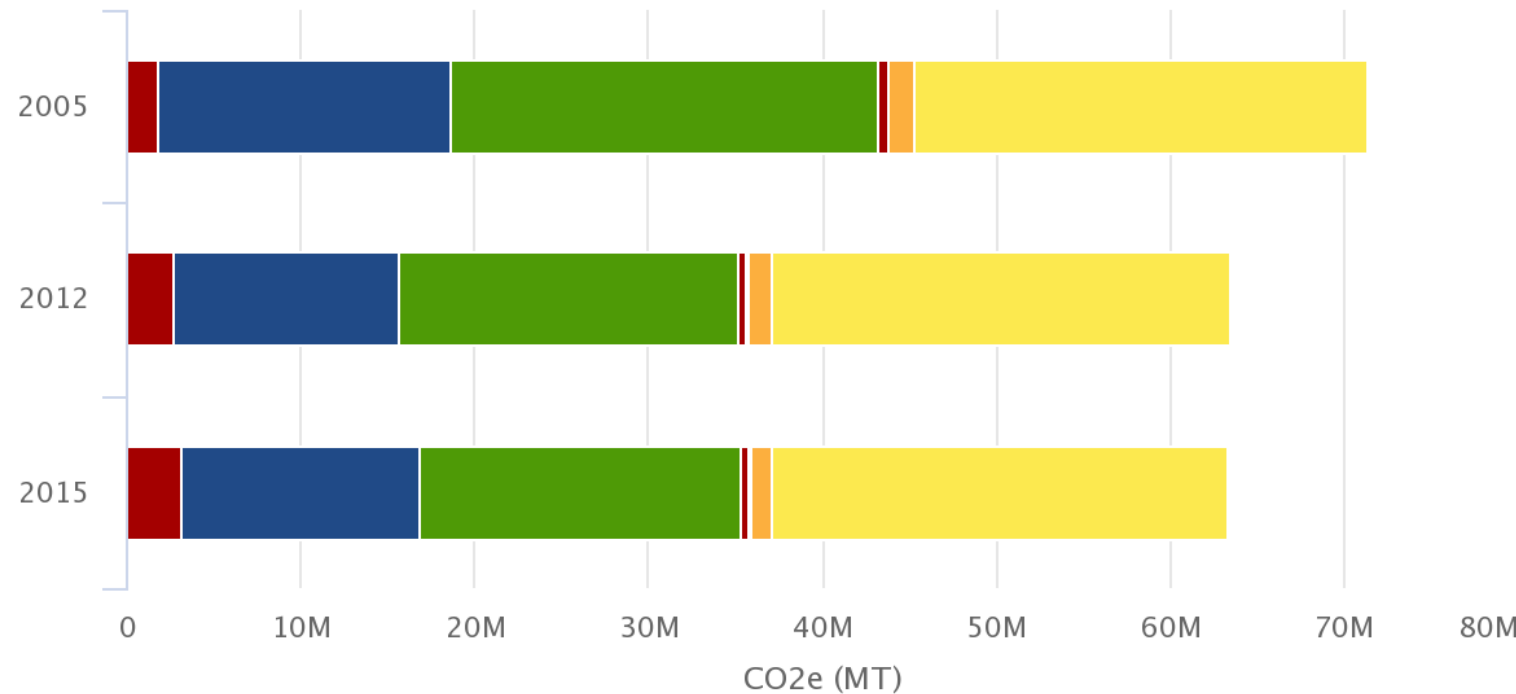
Regional Greenhouse Gas (GHG) Goals



Source: MWCOG, Climate Planning Work Sessions, November 20-21, 2019

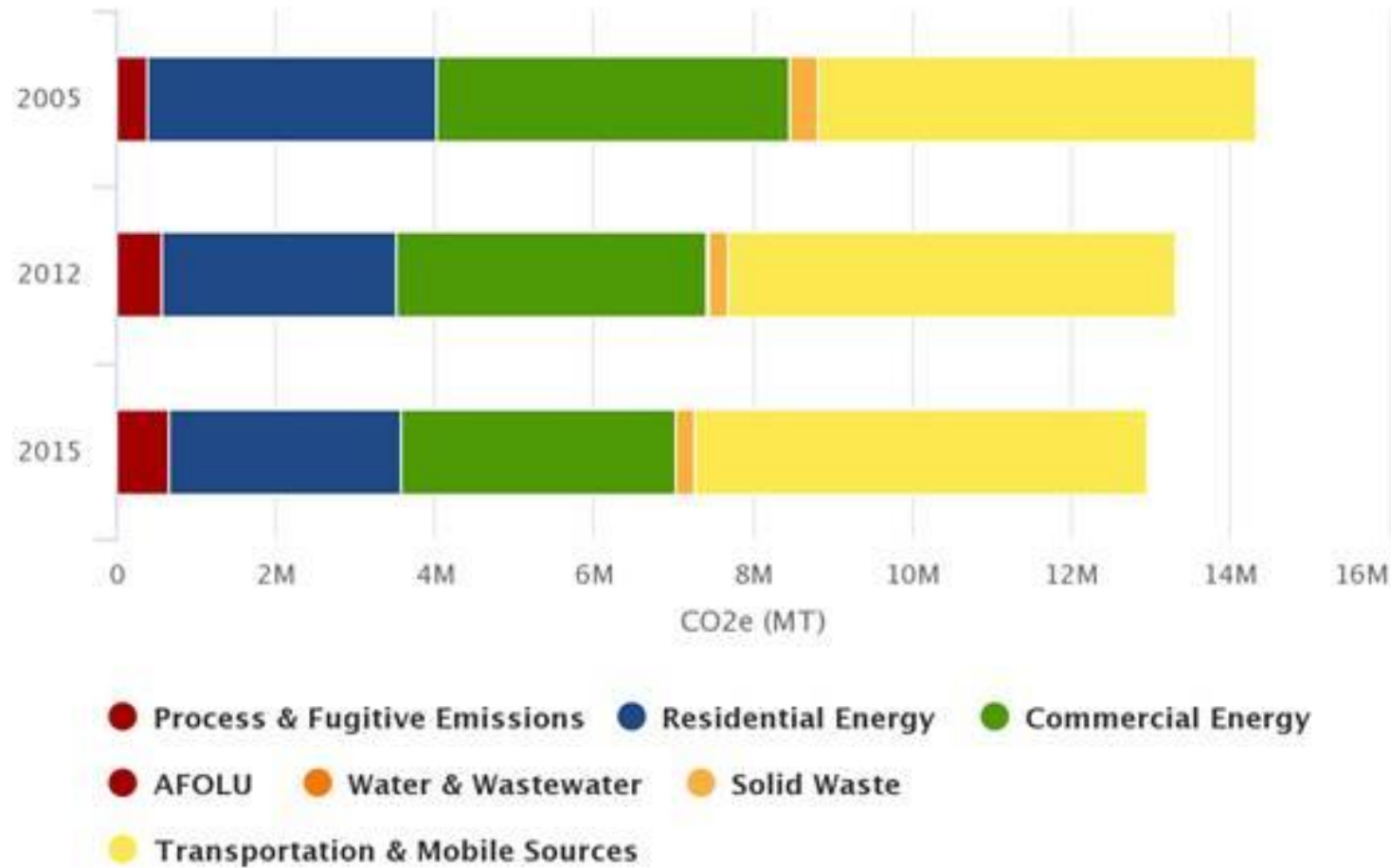


Greenhouse Gas Emissions for the Metropolitan Washington Region (2005-2015)





Greenhouse Gas Emissions for Fairfax County (2005-2015)





Fairfax County Indicators

Indicator	Region	Fairfax
Population	5.4 million	1.1 million (20%)
Households	2 million	403,000 (20%)
Jobs	3.1 million	654,000 (21%)
Commercial Buildings Sq Ft	1 billion	215 million (22%)
Activity Centers	141	26 (18%)
Vehicle Miles Traveled	44.4 billion	9.9 billion (20%)
GDP/Capita	\$86,871	\$89,411 (103%)

Source: MWCOG



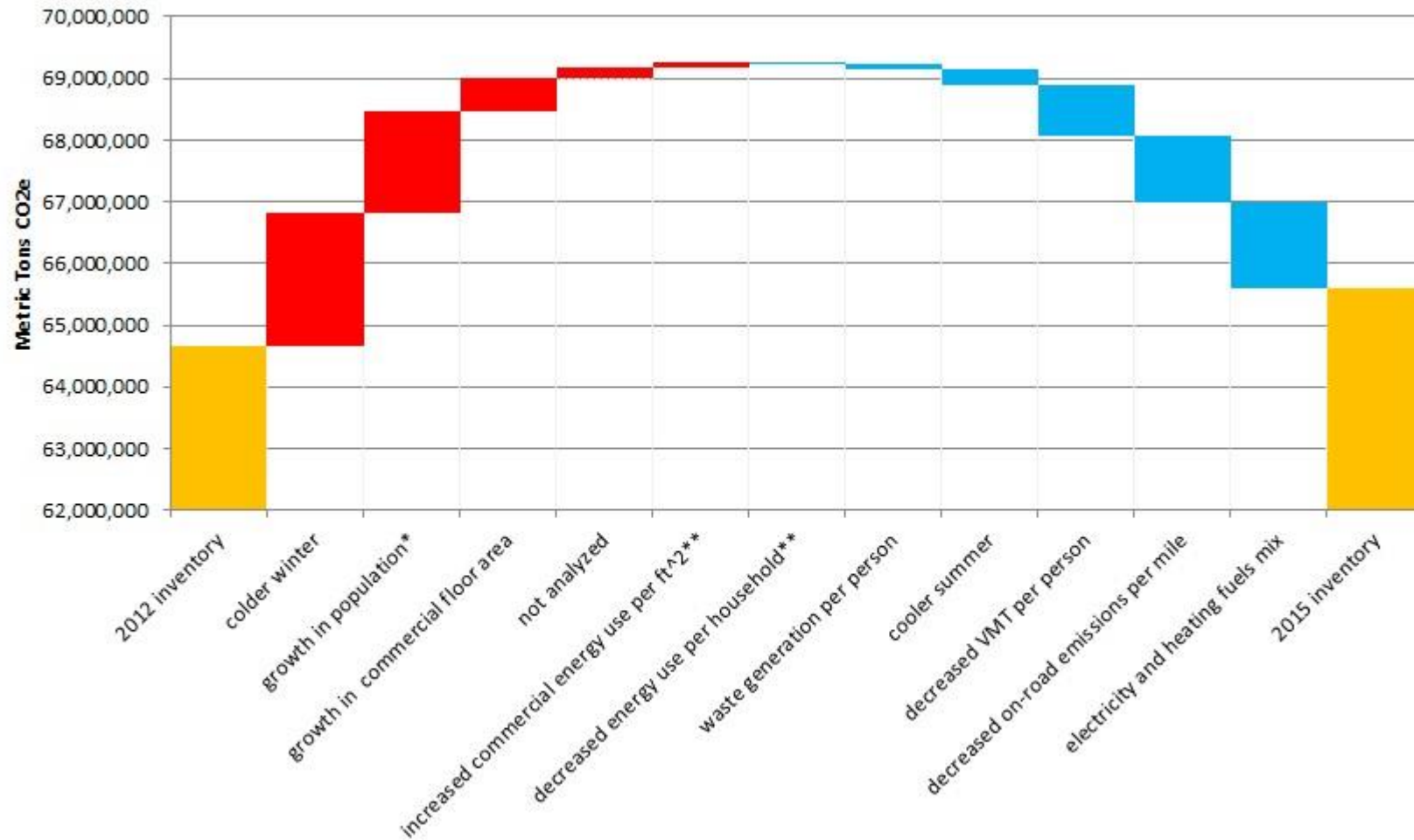
Fairfax County Indicators (cont.)

Indicator	Region	Fairfax
GHG Emissions (2015)	63.2 MMTCO ₂ e	12.9 MMTCO ₂ e (20%)
Certified Green Buildings	4,198	1,252 (30%)
Grid Connected Renewables	38,764	684 (2%)
EVs - BEV and PHEV	8,225	2,247 (27%)
EV Charging Stations	852	147 (17%)

Source: MWCOG



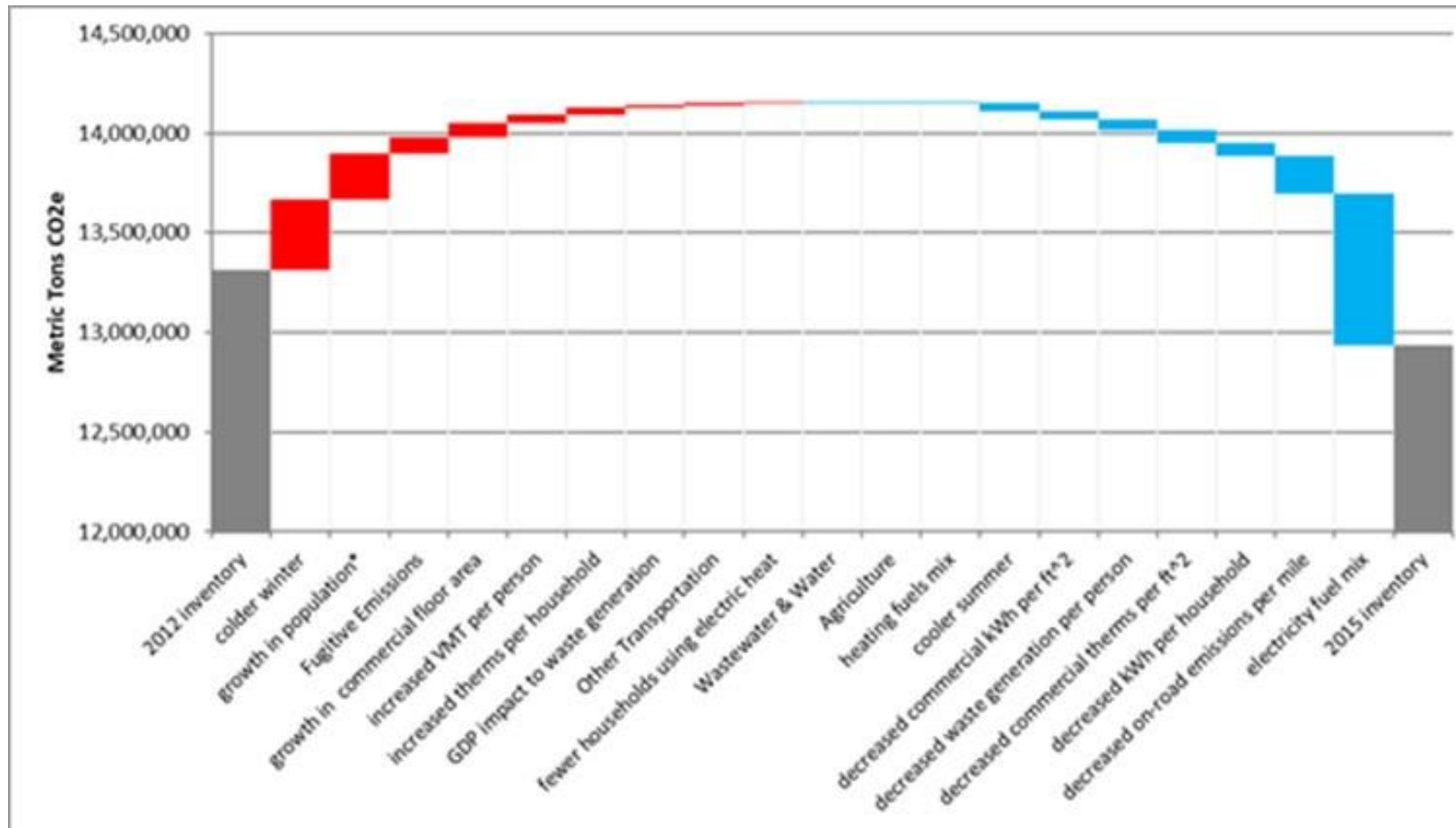
Recent Emission Trends - Region



Source: MWCOC, Climate Planning Work Sessions, November 20-21, 2019



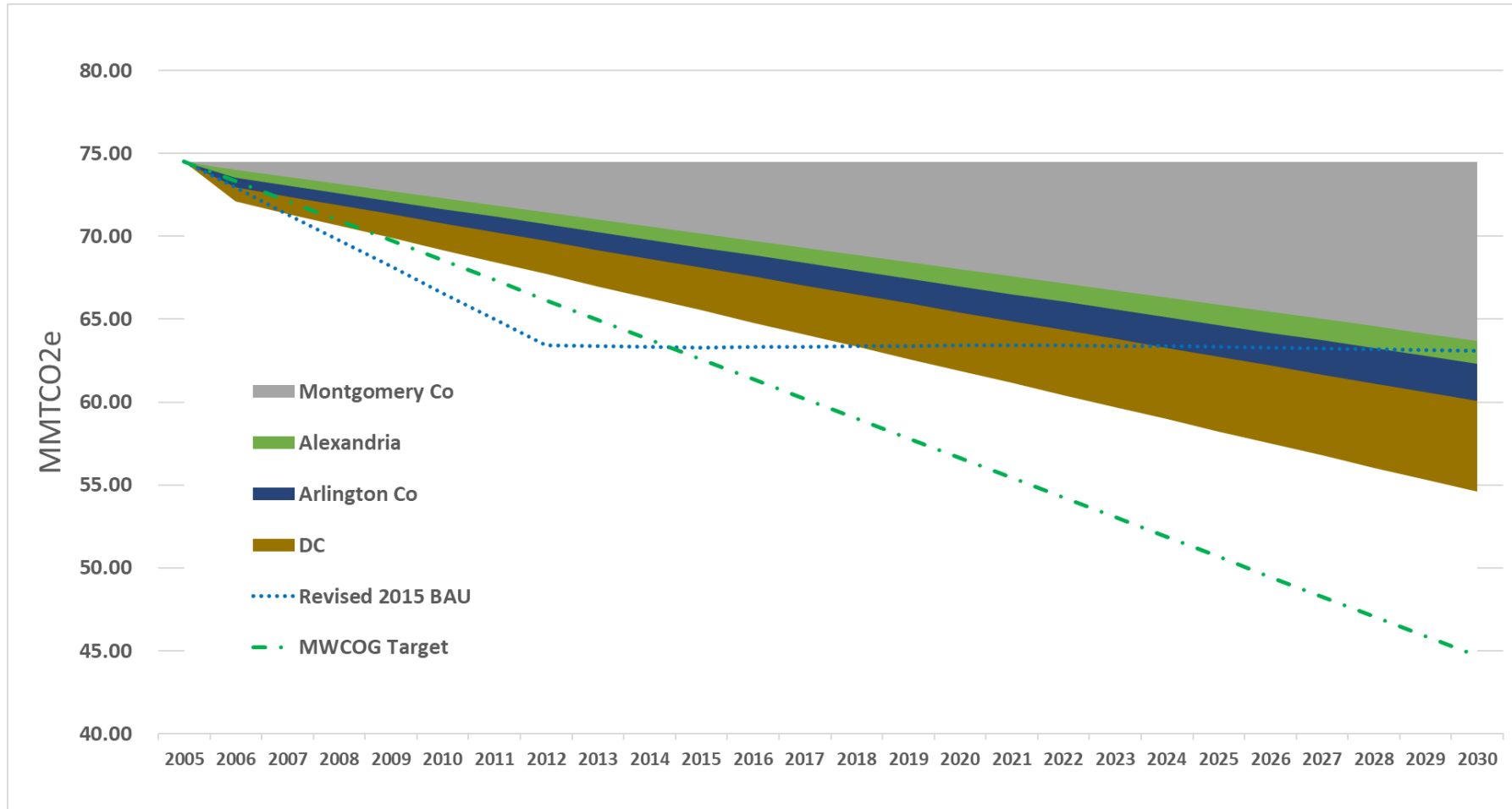
Recent Emission Trends – Fairfax County



Source: MWCOG, Climate Planning Work Sessions, November 20-21, 2019



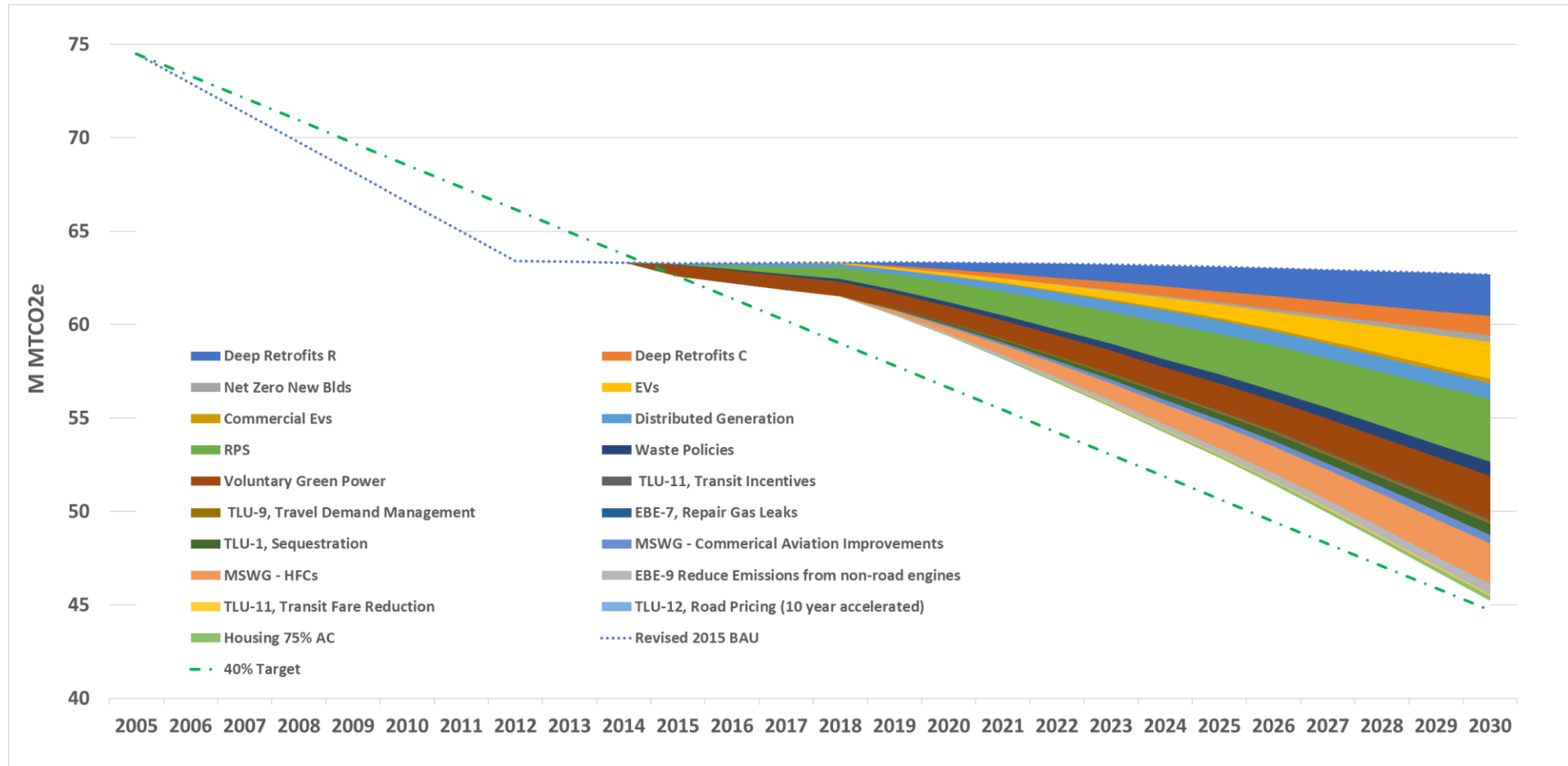
Getting to 40% - Existing Targets



Source: MWCOG



Getting to 40% - Technical Potential



Source: MwCOG



Climate Planning Opportunities

Built Environment

- Building Codes, Green Building Policies
- Building Energy Benchmarking
- High Performance Building (Net Zero) Targets
- Smart Growth in Activity Centers
- Tree Canopy Plans

Renewables

- Rooftop Solar Goal
- Large Off-site Wholesale Renewable PPAs

Sustainable Mobility

- Electric Vehicle (EV) and Electric Vehicle Supply Equipment (EVSE) Deployment
 - Light/Medium/Heavy Duty & Transit
- Biofuels and Renewable Natural Gas
- Freight Management

Resiliency

- Microgrids
- Storm/Flood Risk Management



Climate Planning Opportunities (cont.)

Policies

- Greenhouse Gas Emission Reduction Goals (80% by 2050)
- Region Forward Compact (Sustainability, Livability, Accessibility, Prosperity)
- Regional Coordination
- State and Federal Advocacy
 - Legislative and Regulatory
 - Utility Regulatory Commission
 - Transportation Climate Initiative

Regional Programs

- Cooperative Procurement
- Commuter Connections
- Transportation Land-Use Connections Program
- Clean Air Partners
- Metropolitan Washington Air Quality Committee
- Chesapeake Bay Program/COG Chesapeake Bay and Water Resources Policy Committee



COG Climate and Energy Team Staff

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Current Fairfax Practices and What Comes Next?

ICF

Cara Blumenthal

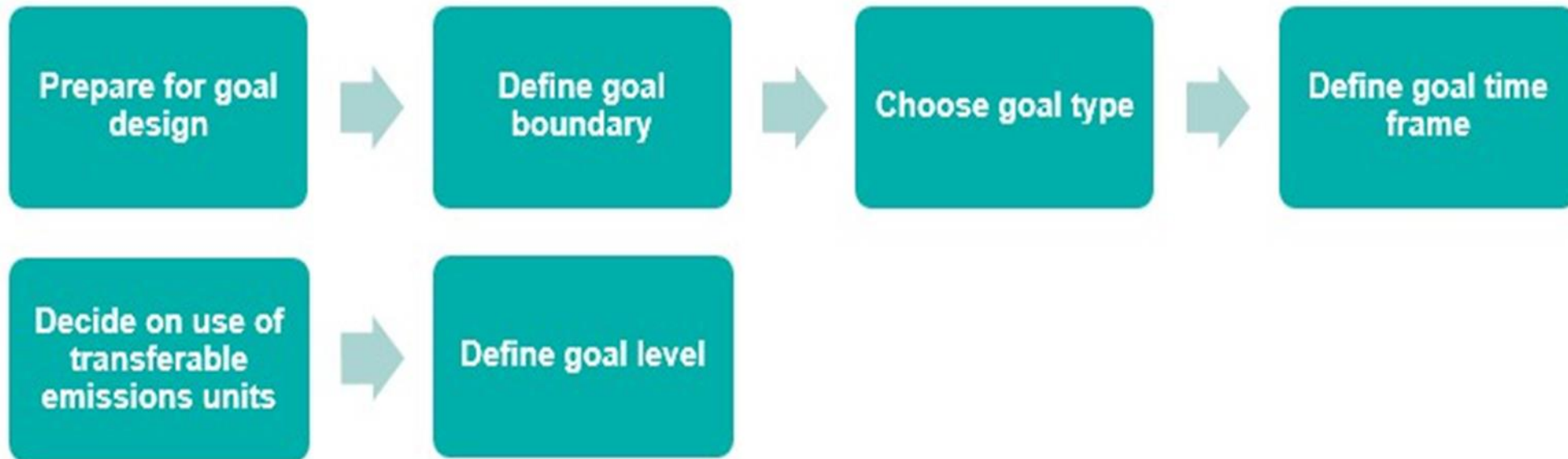




Best Practices for Goal Setting

- Start with Regional Goals set by COG
- What's next? Set specialized, sector-level goals specific to Fairfax County

The Greenhouse Gas Protocol's Steps for Designing a Mitigation Goal:





High Impact and Cost-Effective Practices

High Impact*:

- Practices with **high aggregate impact potential** across U.S. cities.
- Practices where cities are **ready to make on-the-ground change** in the short-term.
- Some may be cutting edge advanced practices; others may represent **established best practices with potential to scale much more widely**.
- Practices with **high GHG reduction potential**, each with potential to **create other important benefits** (e.g., resilience, equity, job creation).

Cost Effective:

- Effective practices with **lower implementation costs** or **long-term cost reductions**.
- Examples include strategic renewable energy use and energy efficiency measures.
- *Defined by the Urban Sustainability Directors Network (USDN)



Examples of Current Fairfax Practices



Transportation: \$750,000 allocated to a two-year plan to construct up to 40 EV ready charging stations at up to 10 county sites.



Renewable Energy: Fairfax County launched the largest solar power purchase agreement initiative by a local government in Virginia to date.



Energy Efficiency: Buildings over 10,000 square feet require a minimum of “Silver” LEED certification.



Waste/Recycling: The success of Fairfax County’s glass recycling program has led to a new partnership which will allow glass dropped off by county residents to be turned into new glass products. North America’s largest glass recycler, Strategic Materials, will transport glass from Fairfax County for sale to manufacturers.



Land Use & Community Planning: The 2018 Fairfax County Tree Action Plan encourages strategic conservation and planting of trees



Deciding What's Next – Potential Strategies

- Review of best practices from established sources.
- Seek input from the community and stakeholders through Focus Groups and the Task Force
- Review Fairfax's existing plans and proposed policies
- Review regional and other relevant county or city strategies that could be applicable to Fairfax



Example Resources for Additional Info

Office of Environmental & Energy Coordination (OEEC) Climate Action News blog:

<http://www.fairfaxcounty.gov/environment-energy-coordination/climateaction/news>

Follow the Community-wide Energy and Climate Action Plan and learn about the topics and trends driving the climate conversation in Fairfax County.

Updates on the CECAP process and timely subject matter articles will be posted on a regular basis.

EPA State and Local Branch, Local Government Strategy Series:

<https://www.epa.gov/statelocalenergy/local-government-strategy-series>

DOE-EPA State and Local Energy Efficiency Action (SEEAAction) Network:

<https://www4.eere.energy.gov/seeaction/>

Institute for Local Governments: <https://www.ca-ilg.org/sustainability-best-practices-framework>

USDN: <https://www.usdn.org/high-impact-practices.html>

ICLEI: https://iclei.org/en/our_approach.html

Roles of Focus Group Members and the Liaison to the Task Force



Office of Environmental and Energy Coordination

Question & Answer Section



District Breakouts

Goal: Choose Focus Group Liaison to the Task Force



Office of Environmental and Energy Coordination

Thank You!

For further questions, please contact:

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